

Figure S5. Parsimony estimates (σ) of flyway-specific rates of AIV gene flow. (A) The average level of AIV internal gene flow (excluding NS gene) within and between the four flyways; Pacific flyway (PF; red), Central flyway (CF; green), Mississippi flyway (MF; yellow) and Atlantic flyway (AF; blue). The 4x4 rate matrices were projected onto the map. The color of the bar and the geographical region where the bar was located denote the flyway where gene flow was measured. For example, the red bar in the yellow terrestrial region represents the extent of gene flow between the PF and MF, while the red bar in the red terrestrial region represents the gene flow within PF. The rate of AIV gene flow within PF is shown next to the bar. Average 95% confidence intervals for the rate estimates are indicated by error bars. (B) The rate matrices (3x3) in a 3-flyway model in which the CF and MF are merged.

